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MACHINE-TOOL PLANTS INTRODUCE NEW TECHNIQUES AND PRODUCTS

Cast cutting tools cut high-speed steel consumption in half, reduce machining time 40 - 70 percent, and are much cheaper to manufacture, Leningrad machine builders were told at a special meeting yesterday. Shekhtman, chief of tool production at the Kirov Plant, said his plant's central laboratory had been making cast tools on a fairly modest scale, but that a cast tool shop had not yet been organized. He pointed out the necessity of having the manufacture of all standard cutting tools centralized in one of the Leningrad tool plants so that other plants could take up the manufacture of complex and special tools only.

Several technicians at the Plant imeni Kalinin have suggested the substitution of two-ply bushings for all-bronze bearings. The bushings consist of two thin sleeves of steel, the friction surface of which is plated with a bronze scrap alloy. The machinery repair section of the plant has converted to the exclusive use of two-ply bushings. The calculated saving to the plant by this innovation is 150,000 rubles yearly.

The Ministry of Machine-Tool Building recently presented awards to leading workers of the Machine-Tool-Building Plant imeni M. I. Kalinin. This plant exceeded its second-quarter gross-production plan by 3 percent. A month ago, it pledged to make 12 heavy-duty pneumatic hammers by the end of the year as a result of materials, fuel, and electricity saved. It has already made six of these hammers.

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PRESS PLANT CONVERTS TO HIGH-SPEED METHODS -- Sovetskaya Sibir', No 157, 10 Aug 49

The "Tyazhtankogidropress" (Heavy Hydraulic Press) Plant, Novosibirsk Oblast, is introducing high-speed metal-cutting methods on a wide scale. A special plan has been devised for providing tools and materials to machine tool and working areas, for grinding and finishing tools, for organizing tool economy, and for modernizing machine tools. Sixteen lathes, five cutters, and four boring and turning machines have already been converted to the high-speed method. Machining parts on lathes is now done at speeds ranging from 100 to 700 meters per minute; on cutters, from 100 to 200; and on boring and turning machines, from 80 to 180 meters per minute. Conversion to high-speed methods enabled the plant to save 3,100 machine-tool hours during the first 6 months of 1949.

TOOL PLANT USES NEW TECHNIQUES -- Sovetskaya Belorussiya, No 165, 20 Aug 49

The Minsk Tool Plant of the Ministry of Machine-Tool Building USSR has pledged to fulfill the Five-Year Plan in 4 years. In March 1949, the plant reached the 1950 production level. The average labor productivity of one worker increased 57.8 percent over 1948 and exceeded the planned productivity by 17.6 percent during the first half of 1949. Gross production is steadily growing.

The above achievements were gained, mainly by introducing modern technological processes. For example, by using the method of die-stamping blanks for circular saws, instead of punching by hand and machining by turning lathes, it was possible to raise labor productivity for one operation 300 percent.

The realization of measures for shortening the production cycle made it possible in June to accelerate the turnover of working capital by 5 days and to release 250,000 rubles.

NEW METHODS RAISE PRODUCTIVITY -- Kommunist Tadzhikistana, No 167, 26 Aug 49

The Plant imeni Ordzhonikidze (director, Novikov) uses a new attachment for machining pistons for ZIS trucks. It has reduced required operations from 16 to eight, freeing one-half the machine tools and raising the productivity of labor 25 percent.

Centerless grinding of valve stems for GAZ trucks raised labor productivity 80 percent in this process.

Making S-80 tractor axles from rolled steel has released machine tools for cutting rods.

PLANT NEEDS PERSONNEL -- Pravda Ukrainy, No 200, 25 Aug 49

The Ministry of Machine and Instrument Building needs the following personnel for the Scale Plant imeni Dzerzhinskiy: engineers and designers, technicians, senior engineers and designers, engineer for accident prevention, lathe operators, fitters, milling machine operators, planners, grinding machine operators, boilermakers, loaders, apprentices, unskilled workers and charwomen.

Address: Kiev, 2 Dachnaya, 5 - 6, Personnel Department. -- Advertisement

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NEW STONE CUTTING MACHINE -- Kommunist, No 198, 23 Aug 49

The Yerevan Machine-Tool Building Plant imeni Dzerzhinskiy is preparing to produce a new conveyer-type stone-cutting machine which will increase considerably the production of tuff stone. The machine can produce 50 cubic meters of stone per day. Stone cut by the machine does not need smoothing or chipping and can be used directly for making walls.

Pravda Ukrainy, No 202, 27 Aug 49

The Yerevan Machine-Tool Building Plant imeni Dzerzhinskiy has started production of a new stone-cutting machine designed by A. Stolyarov. Its capacity is 50 cubic meters of cut stone per day.

REPAIR MACHINE TOOLS, DRILLING ENGINES -- Sovetskaya Kirgiziya, No 168, 27 Aug 49

The Frunze Repair Plant has pledged the delivery of 300 "Tabel' No 1" tools above plan by 7 November. The plant will also repair seven petroleum-drilling engines and three metal-cutting machine tools above plan. It has been decided that the plant will undertake the production of the new URB universal boring machine.

KIRGIZ PLANT DESIGNS MACHINE TOOL -- Sovetskaya Kirgiziya, No 164, 21 Aug 49

Designing engineers at the Frunze Repair Plant have designed a horizontal boring machine for finishing tractor and automobile connecting-rod bearings. The new machine can increase labor productivity eight to ten times in these operations. The plant will begin serial production of these machines in the future.

NAME PRODUCTS OF MACHINE-BUILDING PLANT -- Bakinskiy Rabochiy, No 161, 17 Aug 49

The Machine-Building imeni leytenant Shmidt makes the Bakinets combination machine tool.

Bakinskiy Rabochiy, No 167, 26 Aug 49

In May 1948 the Plant imeni leytenant Shmidt completed three "Pel'ton-700" hydroturbines for the "Azsel'elektro" (Azov Rural Electric Power) Trust. Four months later the trust picked up one turbine. The other two have been lying in storage in the plant's warehouse ever since. -- Letter from chief of sales department, Plant imeni leytenant Shmidt.

MACHINE-TOOL PRODUCTION BY CONVEYER METHOD -- Zarya Vostoka, No 160, 16 Aug 49

The Plant imeni Kirov in Tbilisi is preparing to convert the production of DIP-30C universal screw-cutting lathes to the conveyer method. The basic planning for the conversion has been completed and a schedule for reassembly of equipment has been set up. Fourteen conveyer lines will be set up in the machine shop.

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NOVOSIBIRSK PLANT ACCEPTING WORK ORDERS -- Sovetskaya Sibir', No 162, 17 Aug 49

The Novosibirsk Plant imeni "16 parts'yevda" is taking orders for heat treatment of tools and parts on high-frequency current installations. Apply: Novosibirsk, Bol'shevistskaya, 131. -- Advertisement.

TO ISSUE MACHINE TOOLS CATALOGUES -- Izvestiya, No 193, 17 Aug 49

The Central Bureau of Technical Information, Ministry of Machine-Tool Building USSR, is taking subscriptions for the following catalogues: Metallorazhushchiye stanki (Metal-Cutting Machines), 50 quires, 100 rubles; Aggregatnye stanki (Combination Machine Tools) for the automobile industry, 40 quires, 100 rubles; and Kuznechno-pressovoye oborudovaniye (Forge and Pressing Equipment), 18 quires, 40 rubles.

The catalogues contain technical information and basic data on machine tools and forge and pressing machines. They will be issued at the end of the third and fourth quarters 1949.

Send orders and subscription payments to: Moscow, Vostochny pereulok, 2, GUM, Room 286. No COD orders are accepted. -- Advertisement

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